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ABSTRACT

A medical therapy delivery device that includes a shaft formed by an outer layer and a deflectable tip that includes a tapered portion. A manipulator wire extends through the shaft to adjust deflection of a second portion of the shaft relative to a first portion. The outer layer forms a single shaft lumen having a first lumen portion positioned about a thru lumen tubing and a second lumen portion, offset from and in fluid communication with the first lumen portion, the second lumen portion having a first side wall, a second side wall and a bottom wall extending between the first side wall and the second side wall, the thru lumen tubing. The first side wall, the second side wall and the bottom wall position the manipulator wire within the second lumen portion.